

## **INFECTION PREVENTION MEASURES SURGICAL RENOVATION 4/23/09**

- A. Infection prevention is critical in all areas of the Medical Center. Construction activities causing disturbance of existing dust, or creating new dust, shall be conducted in tight enclosures cutting off any flow of particles into patient areas.
- B. The Cheyenne VA Medical Center's Infection Control Risk Assessment (ICRA) will be implemented by the contractor. Work for this project is classified as Class IV:
  - 1. Phase I: new construction of two operating rooms and storage space with creation of access through existing walls.
  - 2. Phase II: demolition of existing OR rooms 3 and 4, with renovation into a pre-op holding area.
- C. The Cheyenne VA Medical Center requires any subcontractor, sub-subcontractors, material suppliers, vendors, employees or agents to be bound by these same requirements. Before any construction on site begins, the contractor's on-site management team shall attend a mandatory meeting held by Cheyenne VA Medical Center's Infection Control authorities for instruction on precautions to be taken.
- D. The contractor will obtain an infection control permit from the Cheyenne VA Medical Center's Infection Control Coordinator before construction begins. This permit shall be displayed at the entrance to the work site during all phases of the project.
- E. All personnel involved in the construction and renovation activity shall be education and trained in infection prevention measures established by the medical center or the contractor.
- F. The VA Medical Center's ICRA team may monitor dust in the vicinity of the construction work and require the Contractor to take corrective action immediately if the safe levels are exceeded. The contractor will establish and maintain a dust control program as part of the infection preventive measures in accordance with the guidelines provided by ICRA team as specified here.
  - a. All work shall be stopped on the project

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whenever a hazardous infection control deficiency exists.

- b. The Contractor shall take immediate action (within one hour from time of notification) to correct all deficiencies.
- c. Failure of the contractor to correct such deficiencies will result in corrective action taken by the Cheyenne VA Medical Center and all costs will be deducted from the contract.

G. The following preventive measures shall be adopted during construction to contain dust and prevent mold.

- 1. Remove or isolate HVAC system in the area where work is being done to prevent contamination of the duct system.
- 2. Provide dust proof temporary construction barriers to completely separate construction from the all areas of the surgical site in order to contain dirt debris and dust. Barriers shall be sealed and made presentable on surgical suite side. Sheetrock, plywood, or fire retardant polystyrene, 6-mil thick or greater plastic barrier meeting local fire codes may be used where dust control is the only hazard, and an agreement is reached with the COTR and Infection Control staff. Implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins) as appropriate when accessing ceiling spaces.
- 3. Maintain continuous negative air pressure within the work site. HEPA-equipped air filtration machines shall provide air flow into the construction area not less than 100 PPM at the barricade entrances with the doors fully open. HEPA-equipped air filtration machines shall be connected to normal power and ganged to a single switch for emergency shutoff and shall run continuously. Contractor shall verify that construction exhaust to exterior is not reintroduced to the medical center through intake vents, or building openings. Install HEPA (High Efficiency Particulate Accumulator) filter vacuum system rated at 95% capture of 0.3 microns including pollen, mold spores and dust particles. Ensure continuous negative air

- pressures occurring within the work area. HEPA filters should have ASHRAE 85 or other pre-filter to extend the useful life of the HEPA. Provide both primary and secondary filtrations units. Exhaust hoses shall be heavy duty, flexible steel reinforced and exhausted so that dust is not reintroduced to the medical center.
4. Seal holes, pipes, conduits, and punctures appropriately.
  5. Construct an anteroom and require all personnel to pass through this room during the wall demolition segment of Phase I and during Phase II so personnel can be vacuumed using a HEPA vacuum cleaner before leaving the work site or personnel may wear cloth or paper coveralls that are removed each time they leave the work site.
  6. During the demolition segment of Phase I and during Phase II, all personnel entering the work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.
  7. Do not remove barriers from the work area until the completed project is inspected by the Cheyenne VA's Safety Department and Infection Control Department and thoroughly cleaned by the VA's Environment of Care personnel.
  8. Vacuum the work area with HEPA filtered vacuums.
  9. Wet mop with disinfectant.
  10. Adhesive Walk-off/Carpet Walk-off mats, minimum 600mm x 900mm (24" x 36"), shall be used at all interior transitions from the construction area to occupied medical center area. These mats shall be changed as often as required to maintain clean work areas directly outside construction area at all times.
  11. Remove the barrier material carefully to minimize spreading of dirt and debris associated with construction.
  12. Contain construction waste before transport in tightly covered containers. Cover transport receptacles or carts. Tape covering. Wipe down the exterior of the containers with a damp rag to remove dust. The contractor shall not haul debris through patient-care areas without prior approval of the COTR and Infection Control Department.

13. Upon completion of project, or as work progresses, remove all construction debris from above ceiling, vertical shafts and utility chases that have been part of the construction
14. All equipment, tools, material, etc. transported through occupied areas shall be made free from dust and moisture by vacuuming and wiping down.
15. Upon completion, restore HVAC system where the work was performed.
16. There shall be no standing water, drip pans and open containers within the construction areas. All accidental spills must be cleaned up and dried within 12 hours. Remove and dispose of porous materials that remain damp for more than 72 hours.
17. All new air ducts shall be cleaned prior to final inspection.